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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,524	01/30/2006	Mamoru Arayashiki	NGB-39582	7126
52054 PEARNE & GO	7590 08/01/200 ORDON LLP	EXAMINER		
1801 EAST 9T	H STREET	AKINYEMI, AJIBOLA A		
SUITE 1200 CLEVELAND,	ОН 44114-3108		ART UNIT	PAPER NUMBER
			2618	
			NOTIFICATION DATE	DELIVERY MODE
			08/01/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)				
Office Action Comments	10/566,524	ARAYASHIKI ET AL.				
Office Action Summary	Examiner	Art Unit				
	AJIBOLA AKINYEMI	2618				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>30 Ja</u>	nuary 2006					
· <u> </u>	/ 					
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-6</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-6</u> is/are rejected.	·					
7) Claim(s) is/are objected to.						
	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers	·					
	,					
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on <u>01/30/2006</u> is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 9/7/2006, 01/30/2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 3-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Heinonen (Patent No.: US 5530923).

With respect to claims 1 and 5:

Heinonen teaches a transmitting apparatus/method (fig.1) that power- amplifies a transmitting signal, the apparatus comprising transmitting power amplifying means (fig.1, item 10, 12) having a high- frequency power amplifier, wherein the transmitting power amplifying means has a first mode of operating the high- frequency power amplifier as a nonlinear amplifier (col.3, line 12-25) and a second mode of operating the high- frequency power amplifier as a linear amplifier (col.3, line 23-39), and in the first mode, amplitude modulates the transmitting signal and controls an average output level of the transmitting signal by a power supply voltage of the high- frequency power amplifier (col.4, line 12-22) and, in the second mode, controls an average output level of the transmitting signal before the high- frequency power amplifier and amplitude modulates the transmitting signal having the average output level controlled (col.3, line 61-col.4, line56).

With respect to claim 3:

Heinonen teaches a transmitting apparatus wherein an input level of the high-frequency power amplifier is changed according to an average output power of the transmitting signal in the first mode (col.3, line 47-56, col.4, line 40-56).

With respect to claim 4:

Heinonen teaches a transmitting apparatus wherein an input level of the high-frequency power amplifier is changed according to an instantaneous output power of the transmitting signal in the first mode (col.3, line 47-56, col.4, line 40-56).

With respect to claim 6:

Heinonen teaches a radio communication apparatus for transmitting a transmitting signal from an antenna by radio, wherein the transmitting signal is power amplified by the transmitting apparatus is outputted to the antenna (fig.1).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

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1. Determining the scope and contents of the prior art.

- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Heinonen (Patent No.: US 5530923) and further in view of Otaka (Pub. No.: US 20060141964A1).

With respect to claim 2:

Heinonen teaches a transmitting apparatus/method (fig.1) that power- amplifies a transmitting signal, the apparatus comprising transmitting power amplifying means (fig.1, item 10, 12) having a high-frequency power amplifier, wherein the transmitting power amplifying means has a first mode of operating the high-frequency power amplifier as a nonlinear amplifier (col.3, line 12-25) and a second mode of operating the high-frequency power amplifier as a linear amplifier (col.3, line 23-39), and in the first mode, amplitude modulates the transmitting signal and controls an average output level of the transmitting signal by a power supply voltage of the high-frequency power amplifier and, in the second mode, controls an average output level of the transmitting signal before the high-frequency power amplifier (col.4, line 12-22) and amplitude modulates the transmitting signal having the average output level controlled (col.3, line 61-col.4, line 56). Heinonen differs from claim invention in that multiplier and variable gain amplifier are not taught. Otaka teaches multiplier disposed before power amplifier and a variable gain amplifier disposed before the multiplier and in the second mode, amplitude modulates the signal by the multiplier (fig.5, Parag.0052). It would have been

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obvious to one of ordinary skill in the art at the time the invention was made to have multiplier and variable gain amplifier in order to amplifier and combine the signals before reaching the output.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AJIBOLA AKINYEMI whose telephone number is (571)270-1846. The examiner can normally be reached on monday- friday (8.30-5pm) Est. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, YUWEN PAN can be reached on (571) 272-7855. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Yuwen Pan/ Primary Examiner, Art Unit 2618